

## Supplemental Material

Table 1: Characteristics of Rhesus Macaques used

Animal ID	Sex	Incubation	Age
29 010	F	<sup>14</sup> C-NA	12 yrs, 2 mos
32 039	F	<sup>14</sup> C-NA	12 yrs, 10 mos
28 064	F	<sup>14</sup> C-NA	13 yrs, 4 mos
36 894	F	<sup>14</sup> C-NA	2 yrs, 2 mos
36 551	F	<sup>14</sup> C-NA	2 yrs, 4 mos
35 638	F	unlabeled NA	3 yrs, 4 mos
35802	F	unlabeled NA	3 yrs, 8 mos
37773	M	<sup>14</sup> C-NA	1 yr, 2 mos
35273	M	<sup>14</sup> C-NA	4 yrs, 4 mos
25306	M	<sup>14</sup> C-NA	17 yrs, 11 mos
33797	M	<sup>14</sup> C-NA	5 yrs, 10 mos
25022	M	<sup>14</sup> C-NA	18 yrs, 8 mos
36 842	M	<sup>14</sup> C-NA	2 yrs, 8 mos
37 011	M	unlabeled NA	1 yr, 5 mos
35112	M	unlabeled NA	4 yrs, 9 mos

*Macca mulatta*

Supplemental Material, Figure 1. Representative storage phosphor images showing the pattern of covalently adducted proteins obtained from incubations of rat olfactory ethmoturbinate or monkey ethmoturbinate with <sup>14</sup>C-naphthalene. Proteins were separated by 2D gel electrophoresis using narrow range IPG strips as indicated. Highlighted portions of the images show areas of commonality between the rat and monkey.

Supplemental Material, Figure 2. Representative silver stained and storage phosphor images indicating the features selected for analysis in the narrow range pI 4.5-5.5 2D gels.

Adducted proteins identified from incubations of rat olfactory ethmoturbinate with <sup>14</sup>C-naphthalene.

Gel spot no.	Protein identification (abbreviated)	Accession no.
N1	Sorcin (P30626)	SORCN CRILO <sup>a</sup>
N4	Golgi autoantigen	gi 808869 <sup>b</sup>
N7	Pyruvate dehydrogenase	ODPB RAT <sup>a</sup>
N8	Mu-crystallin	IPI 00214448 <sup>c</sup>
N9	Pyrophosphatase	IPI 00371957 <sup>c</sup>
N12	Creatinine kinase	IPI 00470288 <sup>c</sup>
N13	Sec 1413	IPI 00208939 <sup>c</sup>
N19	Creatinine kinase	IPI 00470288 <sup>c</sup>
N23	Actin	IPI 00369618 <sup>c</sup>
N 24	Eukaryotic translation initiation factor 4A1	IPI 00369618 <sup>c</sup>
N25	β-Actin	gi 62897625 <sup>b</sup>
N26	Actin, cytoplasmic	IPI 00767505 <sup>c</sup>
N27	Actin	IPI 00194087 <sup>c</sup>
N29	Actin, cytoplasmic	IPI 00767505 <sup>c</sup>
N32	Actin	IP500767505 <sup>c</sup>
N33	Actin	IP I00767505 <sup>c</sup>
N41	ATP synthase	IPI 00551812 <sup>c</sup>
N43	ATP synthase	IPI 00551812 <sup>c</sup>
N47	Heat shock protein 1A (chaperonin) (Hsp 60)	IP I00339148 <sup>c</sup>
N51	Heat shock 70kDa 9 A (predicted)	IPI 00363265 <sup>c</sup>
N53	Heat shock 70kDa 9 A (predicted)	IPI00858386 <sup>c</sup>
N55	Vomeromodulin	IPI00209782 <sup>c</sup>
N56	Heat shock 70kDa protein 5	IPI00206624 <sup>c</sup>
N57	Heat shock 70kDa	IPI 00206624 <sup>c</sup>

N60	Tropomyosin	gi 73961067 <sup>b</sup>
N61	Tyrosine 3-mono-oxygenase Tryptophan 5	IPI00230835 <sup>c</sup>
N63	Tubulin	IPI00189795 <sup>c</sup>
N64	Tubulin	IPI00339167 <sup>c</sup>
N65	Tubulin	IP I00339167 <sup>c</sup>
N66	Tubulin	IP I00400573 <sup>c</sup>
N67	Tubulin	IPI00197579 <sup>c</sup>
N68	Prolyl 4-hydroxylase beta polypeptide	IP I00198887 <sup>c</sup>
N69	Prolyl 4-hydroxylase beta polypeptide	IPI00198887 <sup>c</sup>
N70	Prolyl 4-hydroxylase beta polypeptide	IP I00198887 <sup>c</sup>
N73	Ubiquinol-cytochrome c reductase core protein 1	IPI00471577 <sup>c</sup>
N74	Ubiquinol-cytochrome c reductase core protein 1	IP I00471577 <sup>c</sup>
N75	Chloride intracellular channel 1	IP I00421995 <sup>c</sup>
N76	Tubulin	IPI0018975 <sup>c</sup>
N77	Tubulin	IPI00400573 <sup>c</sup>

<sup>a</sup>Identification from the Swiss Prot database searching mammals. <sup>b</sup>Identification from the NCBI database searching mammals. <sup>c</sup>Identification from the IPI rat database.

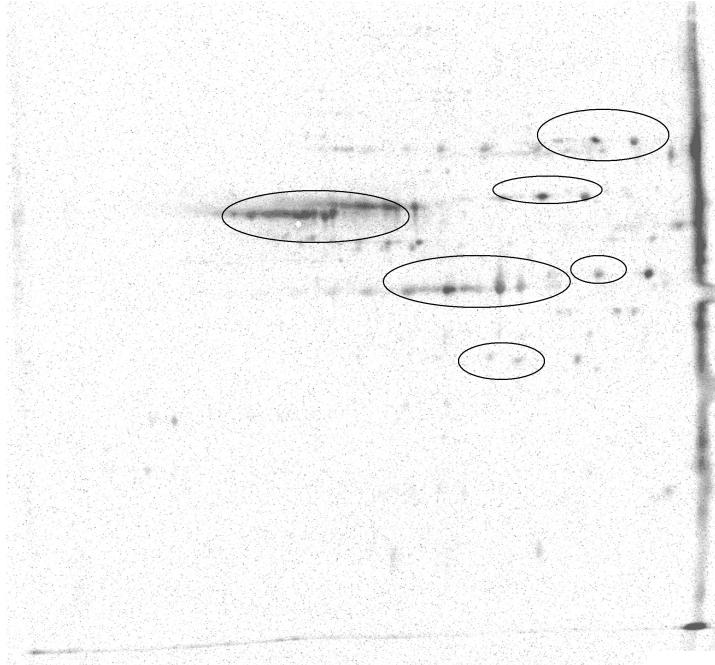
Adducted proteins identified from incubations of monkey olfactory ethmoturbinate with <sup>14</sup>C-naphthalene.

Gel spot no.	Protein name	Accession no. <sup>a</sup>
M1	Actin	gil14250401
M2	Actin	gil62897625
M3	Actin	gil14250401
M4	Tubulin	gil114627728
M5	Actin	gil149758067
M6	Actin	gil16924319
M7	Actin	gil4501883
M8	Actin	gil4501883
M9	Actin	gil4885049
M10	Actin	gil149758067
M11	Fibrinogen	gil109075971
M12	Protease inhibitor	gil109084715
M13	Actin	gil15277503
M14	Actin	gil62897671
M15	Tubulin	gil18088719
M16	Tubulin	gil23958133
M17	Actin	gil14250401
M18	Tubulin	gil114627728
M19	Actin	gil4885049
M20	Tubulin	gil109096498
M21	Protease	gil109069435

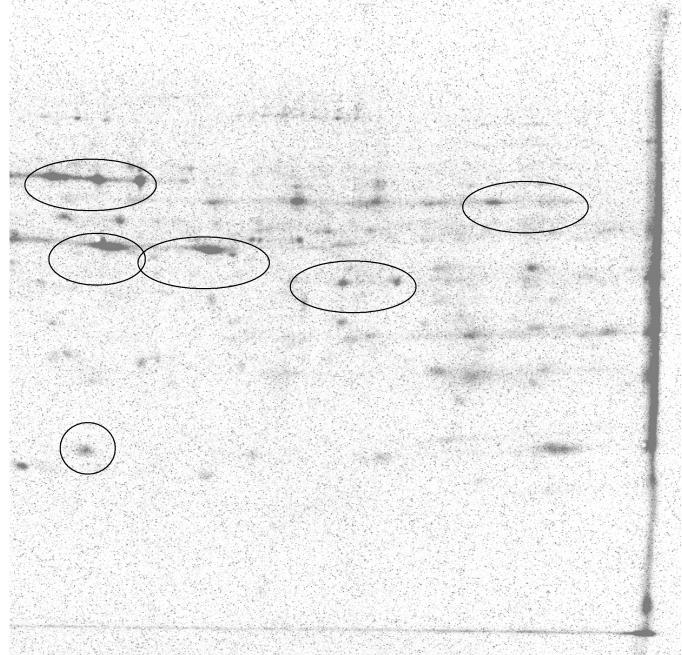
<sup>a</sup>Identification from the Swiss Prot database searching mammals.

Supplemental Material, Figure 1.

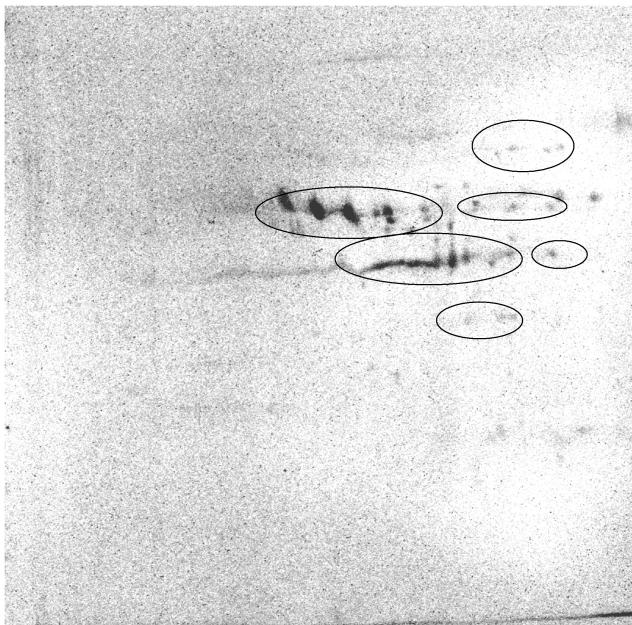
**Rat Olfactory pl 4.5-5.5**



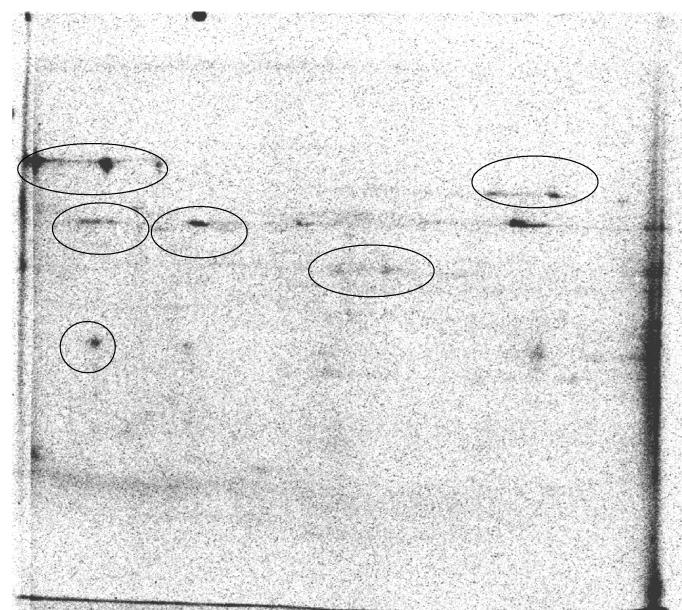
**Rat Olfactory pl 5.5-6.7**



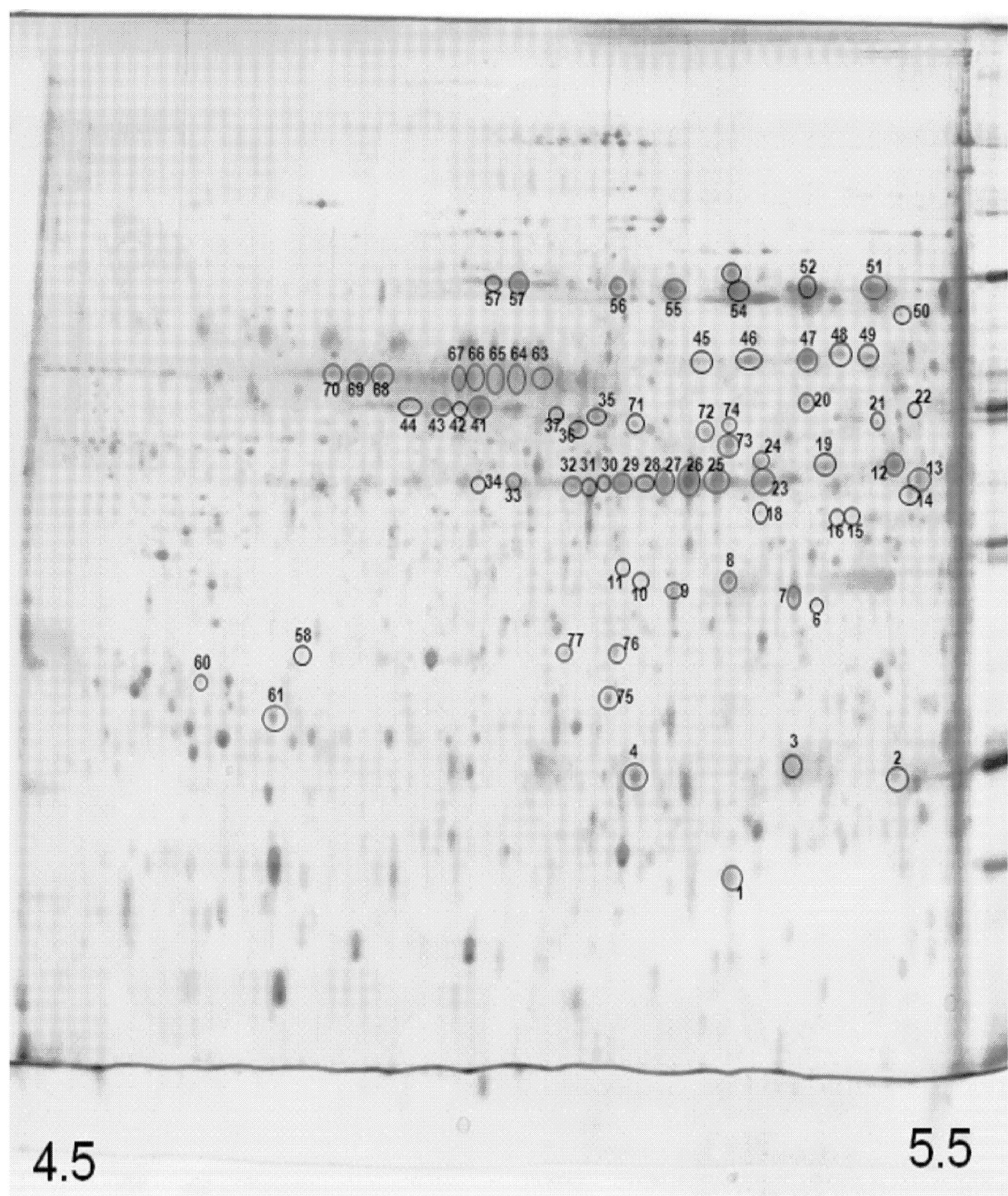
**Monkey Ethmoturbinate pl 4.5-5.5**



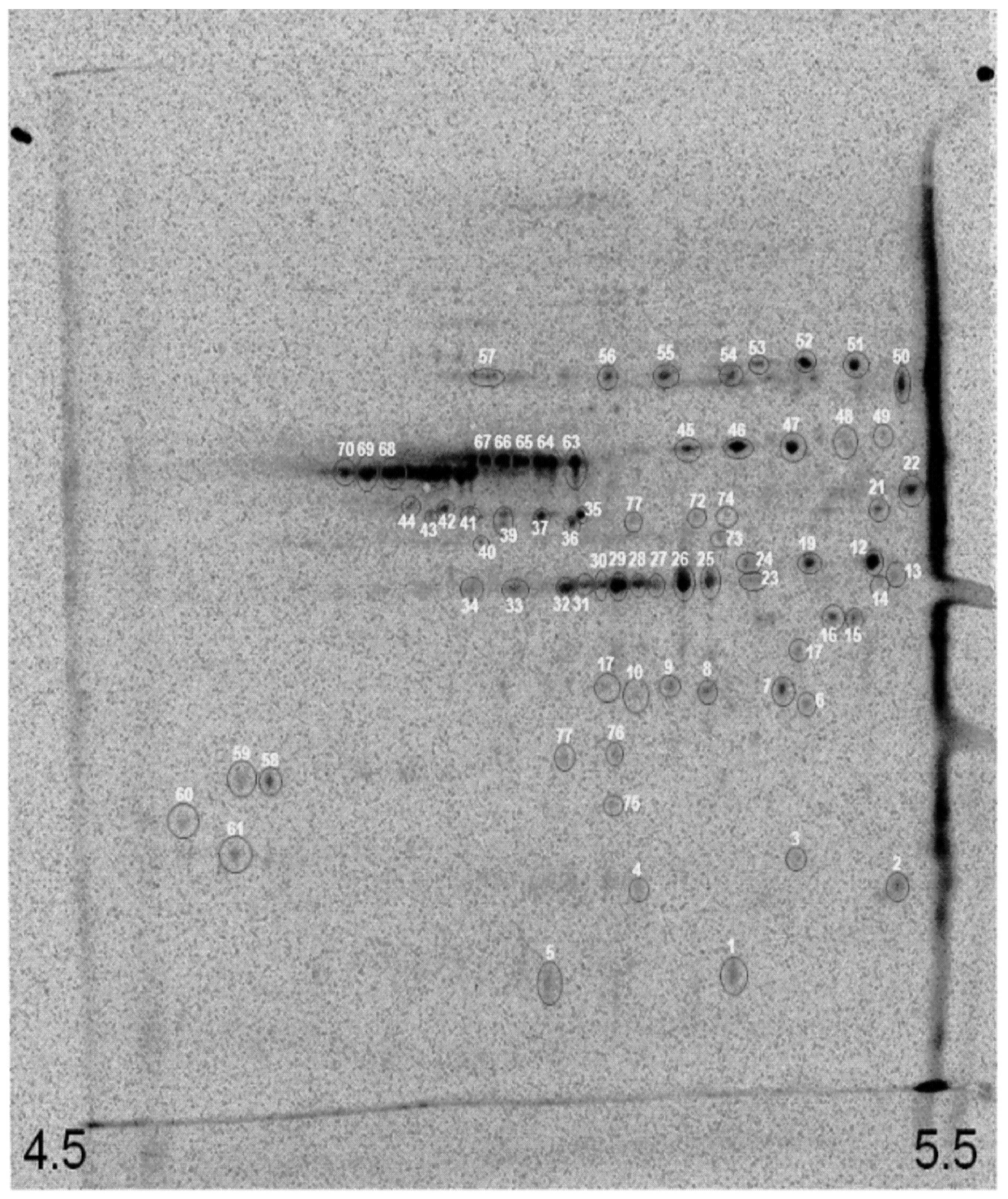
**Monkey Ethmoturbinate pl 5.5-6.7**



Silver stained gel



Storage Phosphor Image  
Rat



Monkey

